



Name

Slogan

ICON

1

2



3

4

5

6

7

--

8

9

10

11

--

--

Takeoff weight

Size (L*W*H)

Service ceiling altitude

Max. flight speed

Flight time (no wind)

Operating temp
Resistance to wind
Max Transmission Distance (unobstructed, free of interference)
Display screen
Operating time
Charging time
Internal Storage
Lens
Zoom
Wavelength range
Temperature measurement accuracy
Accurate temperature measurement distance
Video resolution
Photo resolution
Sensor
Lens
ISO range
Zoom
Maximum photo size

**Video
resolution**

EVO II Dual 640T V3**POWER. EFFICIENCY. RELIABILITY****RADIOMETRIC IMAGING, 15KM RANGE, 38-MINUTE ENDURANCE****640x512 30Hz New THERMAL IMAGING SENSOR**

Equipped with 640*512 high-resolution thermal imaging camera featuring a 13mm focal length lens and 16x digital zoom, it is easy to observe distant targets. The system uses a new image processing algorithm, making thermal imaging details clearer and more discernible than competition with the similar resolution and hardware.

DRI Ranges

DRI stands for Detection, Recognition and Identification.

- Detection: Detect if an object is present.
- Recognition: See what type of object it is (i.e. person, vehicle, airplane).
- Identification: For example see if someone is a friend or foe.

Object Detection Recognition Identification

Person (1.8*0.5m) 542m 135m 68m

SUV (4.2*1.8m) 1661m 415m 208m

Truck (6*4m) 2889m 722m 361m

Multiple Temperature Measurement Modes

Central temperature measurement: View real-time display of the temperature in the center area of the screen.

Spot temperature measurement: Tap the screen, and the temperature of the selected object will be displayed in real time.

Regional temperature measurement: Get a dynamic view of the average temperature, maximum temperature, and minimum temperature displayed in a selected area.

Temperature Alarm; Isotherm; Image Enhancement

Temperature alarm: Monitors the screen temperature in real time. The system prompts the user when the temperature reaches a set threshold.

Isotherm: Set a temperature range and the system will detect any objects within the temperature range specified.

Image enhancement: Supports real-time adjustment of image brightness, contrast, and image details. The system will highlight any objects within the temperature target.

10 Thermal Color Palettes

White Hot; Cold and Hot; Rainbow; Enhanced Rainbow; Ironbow; Lava; Arctic; Searing; Gradation; Heat Detection

Powerful Infrared Thermal Analysis Tool

IRPC TOOL: This free temperature measurement analysis tool is developed specifically for the 640T, and enables users to quickly import images, edit and analyze temperature measurements, and generate detailed reports for sharing and collaboration.

Picture-in-Picture Display Mode

Visual and thermal imagery are combined to help users quickly interpret data and aid in critical decision making.

50MP ULTRA-SENSITIVE CAMERA

The EVO II Dual 640T V3's special RYYB sensor features an moonlight algorithm 2.0 that provides excellent noise suppression in limited lighting conditions, further enhancing its 50 megapixel camera to give users more details for better forensics and analysis. Detect, identify, classify subjects in low light situations and proceed with certainty.

.8" Sensor Size

The EVO II Dual 640T V3's .8" RYYB CMOS offers up to 144%~233% more surface area when compared to 1/2" or 1/2.3" competitors for maximum details in high contrast lighting conditions.

RYYB Sensor Technology

RYYB sensor technology moves away from RGB cameras by offering up to 40% more light sensitivity in low light scenarios.

PDAF+CDAF Autofocus System

Never lose sights of your subjects with a combination of PDAF (Phase Detection Auto Focus) and CDAF (Contrast Detection Auto Focus) technology for fast and accurate tracking.

See the Scene with 16x Digital Zoom

The system supports 16x digital zoom and 4x lossless zoom, providing long-distance image acquisition and detailed insight into scenes safely and without detection.

4K HDR for Greater Dynamic Range

4K HDR offers greater detail in highlights and shadows, providing higher-quality images from the most demanding environments.

SkyLink 2.0 Video Transmission

EVO II Dual 640T V3 is upgraded with Autel's all new SkyLink 2.0 Video Transmission technology.

15KM: Fly farther with HD video transmission up to 15km.

QHD: Obtain critical details with QHD video within 1km.

2.4G/5.8G/900MHz: Support tri-band communication and can automatically frequency hop for maximum anti-interference capability

*900MHz is only applicable for FCC countries.

360° Obstacle Avoidance

Equipped with 19 groups of sensors including 12 visual sensors, the main camera, ultrasound, IMUs and other sensors enable building of three-dimensional maps and path planning in real time.

*Please refer to the manual for details on obstacle avoidance and its limitations, which may or may not work in limited lighting environments, under direct strong sunlight, or across thin tree branches or wires.

Practical and Convenience Features

Deploy Rapidly

EVO II Dual 640T V3 takes 45 seconds from launch to takeoff without fuss.

No Fly Zones

EVO II Dual 640T V3 does not have any no fly zones and will not prevent the pilot from taking off.

*Please fly safely and consult your local laws and regulations. Autel Robotics is not liable for any unauthorized flights.

No Forced Updates

EVO II Dual 640T V3 does not need to be on the latest hardware or app version in order to take off unlike other competitors.

* Understand that the warranty does not apply if the pilot is not on the latest app and firmware updates. APP and Firmware updates provide the latest feature and safety benefits to the pilot, fly at your own risk.

Non-ITAR
More export freedoms as the EVO II Dual 640T V3 is not under US's International Traffic in Arms Regulations.
Industry Leading Performance
Maximum Flight Time 38 minutes Maximum Transmission Range 9.3miles (15km) Maximum Wind Resistance 39mph (17m/s) Maximum Flight Speed 45mph (20m/s) Maximum lift capability 2lbs (920g)
Autel Smart Controller V3
Smart Controller V3's 7.9-inch, 2000nit high-brightness screen is clearly visible even under direct sunlight. SkyLink 2.0 Transmission technology guarantees long-distance operations from up to 15km away and enhances anti-interference abilities with triple band frequency hopping. The customized Android system allows for additional flexibility with 3rd party apps and an IP43 rating ensures all weather performance.
7.9-inch HD Touch Screen, 2000nit Maximum Brightness, 4.5-Hour Long Battery Life, -20°C to 40°C Operating Temperature, IP43 Resistance
Broadcast with Live Deck 2
Broadcast live mission intel to other personel in the operation for enhanced situational awareness and critical decision making. The EVO II Dual 640T V3 is compatible with Live Deck 2, which offer multiport streaming to monitors and Wifi support for multiple smart phones.
1080P/60FPS Video Stream; Three Auto-Switch Bands; 12km Transmission Range; 5-hr Battery Life; IP43 Resistance
Application
Line Inspections: Reduce costs, increase safety, and improve inspection workflow.
Firefighting: Locate hotspots, provide overwatch, and shorten response times.
Security: Perform overwatch, conduct accident scene reconstruction, forensics, and crowd monitoring.
Search & Rescue: Identify subjects, reduce response times, and optimize search area with automated mission planning.
Chemical: Inspect plants more efficiently while improving work safety and lowering inspection costs.
Solar: Reduce field time by using mission planning to streamline the inspection process, allowing operators to discover defects or faulty hardware using the thermal payload.
Specifications
Aircraft
1150 g
230*130*108mm (folded) 260*355*108mm (unfolded)
7000 m
20m/s (Ludicrous)
40 min

-10°C ~ 40°C
Level 8
RC and Image Transmission
FCC: 15km CE: 8km
2048x1536 60fps
~3 hours (Max. Brightness) ~4.5 hours (50% Brightness)
120 minutes
ROM 128GB
Thermal Camera
FOV H33°V26°
Focal length 13mm
1-16x
8~14μm
±3°C or ±3% of reading (whichever is greater) @Environmental temperature-20°C~60°C
2-20 meters
640x512@30fps
Infrared mode: 640*512 Picture-in-picture mode: 1920*1080, 1280*720
Visible Light Camera
1/1.28"(0.8") CMOS; 50M effective pixels
FOV: 85° 35 mm format equivalent focal length: 23 mm Aperture: f/1.9 Focus range: 0.5 m to infinity (with auto focus)
Video: 100-64000 Photo: 100-6400
1-16x (up to 4x lossless zoom)
8192*6144 (4:3) 4096*3072 (4:3) 3840x2160 (16:9)

3840x2160P60/P50/P48/P30/P25/P24

2720x1528P60/P50/P48/P30/P25/P24

1920x1080P60/P50/P48/P30/P25/P24